

A B S T R A C T

The invention relates to a fibre-reinforced pressure vessel (1, 6) comprising a rigid gas-of fluid-tight body (2, 7, 13, 19) overwound with fibre filaments (3, 10, 11, 18), whereby the fibre filaments are wound such that at least a number of fibre filaments can freely move with respect to one another and when the pressure vessel is under internal pressure the fibre filaments are loaded exactly in their longitudinal direction.

5 The invention also relates to a method of manufacturing a fibre-reinforced pressure vessel whereby no matrix material (for example, resin) is used so that at least a number of fibre
10 filaments would be incorporated in a matrix for that section of the pressure vessel in which the fibre filaments can freely move with respect to one another.

Fig. 2.